DXpedition News

Howland Island - KH1 The 1993 Howland Island DXpeditioners gather in Hawaii this weekend, for the flight to Christmas Island T32 Jan. 19. Operation from Howland should begin around Jan. 26, with emphasis on working Europe, the new bands, and the low bands. Four kilowatt stations will transmit on 1833, 3503, 7023, 10103, 14023, 18073, 21023, 24893, and 28023 kHz on CW, listening up. On SSB, try 3795 (3635-50, 3800-3810), 7080 (7230-40, 7080-7100), 14195 (14200-210, 14240-50), 18115 (18120-130), 21295 (21300-310), 24935 (24940-50), and 28475 (28480-500) kHz. On RTTY, watch 7085, 14085, 18105, 21085, 24925, and 28085 kHz, listening 5 kHz up. QSL to the Mile-Hi DX Association, P.O.Box 1, Franktown CO 80116. Sunrise 1753Z; sunset 0551Z. The callsign to be used will be announced next week, to reduce pirate activity.

Edited by Chod Harris VP2ML

The DX Bulletin

America's Premier Weekly Amateur Radio Publication

Angola - D2 Elliot Steinberg N6QHO is back for another of his 5-week operations as **N6QHO/D2**. He's active on 20, 15, and 10-meter SSB, usually working by call areas. He looks for west coast stations on 28460-500 kHz Sundays mornings, about 1500Z. KC6HUE is a fellow oil worker who shares Elliot's rig. QSL home callsigns.

Marshall Islands - V7 Richard LaChance AH6IO returns to the Marshalls as **V73IO** Jan. 18-27. He will be on Kwajalein Island Jan. 18-20, and Bikini Atoll Jan. 20-27, both in the Ralik Group (OC-028). 160-6 meters, including satellite gear, CW, SSB, and RTTY. Watch 14226, 21305, 28495, and 50110 kHz. QSL direct only to his home address: 263 Kaiulani Ave. 10-A, Honolulu HI 96815.

DXpedition News, Continued

Laccadive Islands - VU7 Three Indian amateurs will operate as **VU7CF** on CW, and **VU7API** on SSB for 7-10 days, beginning about Jan. 13. They'll have a beam and amplifier, and will look for west coast stations on the long path at 01-0230Z. OPDX says to QSL to Box 41366, Nashville TN 37204.

Cayman Islands - ZF Bruce Frahm KØBJ will operate as **ZF2NJ** Jan. 17-24, mostly on 20, 15, and 10-meter CW, and 10-meter SSB. QSL via home call, via the bureau or direct to P. O. Box DX, Colby KS 67701.

Aruba - P4 Pete Farsje KG7OZ will be active as **P4ØOZ** Jan. 18-25, on 40, 20, 15, and 10 meters, specifically listening for QRP stations. QSL home call.

Shortly Noted

- The two new countries from former Czechoslovakia will count as separate multipliers in the 1993 ARRL DX Contest, both CW (Feb. 20-21) and SSB (March 6-7). Edit your ARRL.CTY to change OK and OL to the Czech Republic, and add OM for Slovakia. The DXAC has not yet acted on changing the DXCC Countries List to reflect the status of these new European countries.
- **5H3/N4QQL** hopes to get a 5H callsign soon. He'll be in Tanzania for about a year. QSL to W3HCW.
- **3XØHNU** transmits on 3684 kHz, listening 3512 kHz.
- **XU5SE** likes 14010-025 kHz, with high-speed CW. QSL to F6FNU, with a 'tip' in addition to return postage.
- **VI5VIA** will commemorate the closing of the Adelaide Coastal Radio Station VIA, Jan. 29-Feb. 1. A special QSL card to mark the 81 years of operation of VIA will be offered, but no QSL route has been announced yet.
- **Kenya 5Z4** stations have gained permission to operate on the 17-meter band. **5Z4BI** has amateur satellite gear up.
- **KK4DK/KH9** from Wake Island is active for 2-3 weeks; QSL via OKDXA, Box 88, Wellston OK 74881.
- **J5UAI** returns to Guinea-Bissau Jan. 17, until June. He is taking a beam, amplifier, and RTTY gear. QSL to NW8F.
- **BV on 80**: Taiwan amateurs received special permission to operate on 80 meters in the CQWW CW contest, and expect to get 80-meter privileges for other contests, but not on a regular basis for some time.
- **China individual callsigns** appeared Dec. 22, with **BA-BD** prefixes. BYs are club stations, and BZs are individuals operating from club stations. (DXNL.)
- **DXCC Backlog** continues. As of Dec. 21, the DXCC desk was processing applications received on July 7, and mailing certificates from applications received May 14-July 2.
- **SSB Net** check-ins: **14160 kHz** (21Z): EL2PP; **14227**: (11,22Z) ZD7BV; **14256**: (2330Z) VP8VN (Falklands) HH2Z; **21335**: (14Z) TN1AT ZS9A.
- **ARRL Contest operations**: At least one CW op is looking for a multi-single DXpedition to join. Please send news of any planned operations to The DX Bulletin.

Propagation

Forecast and Historical Data

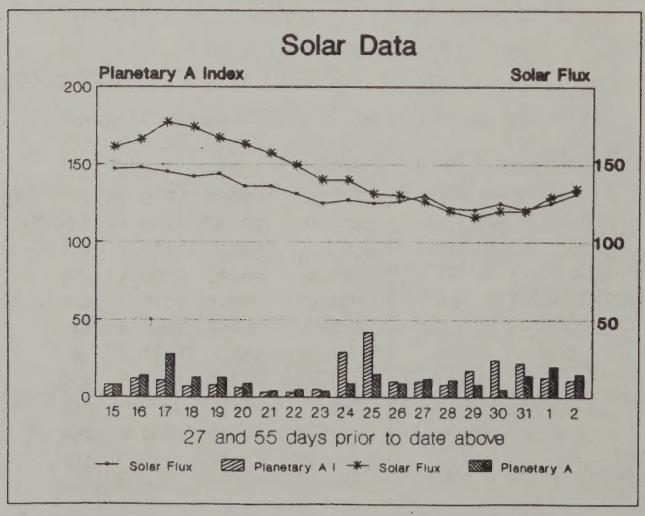
Day Forecast	27 Days Before			55 Days Before			
January 1993	Date	Flux	A K	Date	Flux	A	K
15 Above Normal	12/19	147	07/08 3	11/21	161	11/08	0
16 High Normal	12/20	148	11/12 3	11/22	166	10/14	3
17 High Normal	12/21	145	07/11 3	11/23	177	25/28	3
18 Above Normal	12/22	142	05/07 1	11/24	174	11/13	3
19 Above Normal	12/23	144	07/08 1	11/25	167	12/13	3
20 Above Normal	12/24	136	07/06 3	11/26	163	09/09	2
21 Above Normal	12/25	136	02/03 1	11/27	157	03/04	0
22 Above Normal	12/26	131	02/03 0	11/28	149	04/05	1
23 Above Normal	12/27	125	03/05 2	11/29	140	03/04	1
24 Low Normal	12/28	127	22/29 5	11/30	140	07/09	3
25 Disturbed	12/29	125	37/42 3	12/01	131	17/15	2
26 High Normal	12/30	126	09/10 1	12/02	130	09/09	2
27 High Normal	12/31	130	10/10 1	12/03	126	14/12	2
28 High Normal	1/1	122	08/08 2	12/04	120	12/11	2
29 High Normal	1/2	121	12/17 3	12/05	116	05/08	0
30 Low Normal	1/3	125	24/24 3	12/06	120	02/05	1
31 Low Normal	1/4	121	18/22 3	12/07	120	11/14	2

Propagation Watch

The bands have been up and down over the past week, with some exceptionally good low-band openings, and some (briefly) disturbed conditions. Look for more of the same over the next few weeks.

In addition to the usual daytime openings on the higher bands, the long path has been very productive, especially when the geomagnetic field cooperates. In the early to mid-evening, local time, swing your beam in various southerly directions. Signals will peak to either side of the South Pole, as they bounce around the southern auroral zone. The long-haul openings (beyond the VKs and ZLs) tend to be very short, from a few minutes to an hour, and are thus easy to overlook. However, there are some goodies hiding among the Europeans and Oceania stations, such as S2, XU, and others.

Another often-overlooked DX opportunity is possible low-latitude, low-band openings when the geomagnetic field is active in high latitudes. During auroras and geomagnetic storms, some tropical stations are **easier** to work than under more stable conditions. Signals tend to be weak, but don't give up on the low bands because of a high K index. Look for 160-meter regulars and others to the south.



QSL Information

- The **YXØAI** QSL cards are coming out, but many QSL requests were never received. DXers who haven't received their cards by the end of the month may send a US SASE to Mike Manato K3UOC, E.C.A. SA M-314, Jet Cargo International, P.O.Box 020010, Miami FL 33102-0010. Mike is **not** the QSL manager, but can help QSLing by by-passing the Venezuela mails. Please don't abuse this offer with multiple band requests, but for those who **really** need the Aves QSL, Mike offers this alternate route.
- Another possible **YXØAI** QSL route comes from Ramon Perez Brett YV5EED, who says that all QSLs received with sufficient return postage have been mailed from Venezuela. If you haven't received yours in a couple of weeks, try again via 3180 Leewood Terrace L-208, Boca Raton FL 33431. These cards will be mailed from Venezuela, so **don't** use US stamps. Cards for the 1987 **4MØARV** operation may be confirmed via the same address.
- QSL Hartmut Gumpert **9X5HG** direct to P.O.Box 420, Kigali, Rwanda, with a standard-sized SAE and US$1, not IRCs, please. And Hartmut passes along Season's Greetings to all DXers.
- QSL **9X5AB** via Harry Wismath DL6NA, Anne Frankstr. 101, D-6000 Frankfurt 50, Germany. Note that US$1 or one IRC are sufficient for surface-mail return, or a 5-gram airmail letter, but not for most airmail letters to the US.
- QSL QRPer **KA2OIG/HR3** via 161 W. Norwalk Road, Norwalk CT 06850.
- QSL Tom Ewing **VR2GO** direct to GPO Box 9887, Hong Kong, and not via any UK station.
- QSL **OD5PL OD5VT XX3JP CR3R CQ3B CT3FN CT3M** and **CT3BX** via Hermann Stein HB9CRV/CT3FN, Bruelmatten 13, CH 4410 Liestal, Switzerland.
- Cards for Clint **VK2ACM** maybe sent to Alice Prudhomme KG5ZZ before Feb. 1. Clint is visiting KG5ZZ until then. Address: Route 1 Box 410, Mansfield LA 71052.
- QSL **ZS1DAS** via P.O.Box 15788, Vlaeburg, 8010 Cape Town, Republic of South Africa.
- QSL **W1/G4DZC, FW/G4DZC,** and **3D2ZC** via operator Martin Bayes, P.O.Box 620674, Newton MA 02162.
- QSL **8P9DI** via LA9GY.
- QSL **3XØHLU** via Carlo Mancuso IK2OPZ, P.O.Box 87, Gorla Minore 21055, Italy.
- QSL **VO2AC, VO2AC/1, XL2AC/1, VO5AC, VO8AC,** and **CY2AC** via Bay Baybeck KA8SOF, 1225 Banbury Road, Kalamazoo MI 49001. Bay apologizes for the previous delays in QSLing, but is now up-to-date.
- QSL **WA1AWJ/VP9, N4ZDA/VP9,** and **XT2BW** via WB2YQH.
- QSL **YI1MH** via Majid Abdul Hamid, P.O.Box 5864, Baghdad, Iraq.
- QSL **VKØML** c/o Post Office, Kingston, Tasmania, Australia. VK6NE is the Wireless Institute of Australia's VK9/VKØ QSL bureau manager, and is not a individual QSL manager.

QSLs Received

- From managers: **TJ1GG** (I2EOW 3 WKS), **C9RJJ** (W8GIO 2 WKS), **S21A** (W4FRU 2 WKS), **5R8GW** (F6FNU 4 WKS), **TY1IJ** (DJ5IO 5 MOS), **ZD8Z** (VE3HO 3 WKS), **VP9AD** (W3HNK 2 WKS), **V31DX** (KA6V 3 WKS), **CT3FN** (HB9CRV 3 WKS).
- Direct: **PZ1EL** (5 WKS), **XQØYAF** (3 WKS).

B • A • N • D • P • A • S • S

*Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet.*
All "portable" calls listed with country of operation first, regardless of format used on the air.

S	M	T	W	T	F	S
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

RTTY

5R8DG	21084	1626	6	PA
7P8SR	21092	1935	1	MN
A22MN	21084	1959	3	PA
ES7JW	21083	1600	1	OH
FM5DN	14084	2230	31	OH
HP2VX	14084	2225	31	OH
OD5PL	21088	1454	6	PA
VR6BX	14088	0101	8	PA
YB5KXE	14084	2145	7	CA

160 Meters

9K2MU	1833	0133	30	MA
C6AGN	1832	0407	7	NH
EA8AF	1832	2255	28	MA
FY5EW	1833	0330	3	AL
HFØPOL	1832	0430	30	SC
PYØFF	1832	0130	29	MA
TZ6VV	1829	2255	28	MA
ZS5LB	1834	0315	3	AL

80 Meters

3XØHNU	3684	2350	1	IA
5Z4FO	3513	0250	2	MA
5Z4TT	3501	2127	28	MA
6W6JX	3501	2225	4	NH
7Q7XX	3506	0243	2	MA
9K2MU	3511	0155	5	NH
9M2AX *	3510	2140	1	MA
9M8GU *	3504	2210	1	MA
A22BW	3510	0210	2	IA
HFØPOL	3506	0125	5	GA
HP1XBH	3504	1150	2	NH
JA1DQT	3501	1205	7	GA
JA8CDT *	3505	2140	29	MA
OM3BRK	3503	0130	8	GA
PYØFF	3504	0210	4	IA
T32VU	3506	0615	2	CA
T32VU	3505	1405	4	CA
T55C	3506	0125	5	NH
UC2AKP	3802	0007	8	FL
V2/VE3BW	3505	0005	6	IL
V73CT	3510	1155	3	FL
VK6HD *	3501	2135	2	MA
VP2MLD	3504	0240	5	GA
YN/SMØOIG	3506	1135	4	NH

75 Meters

4U1UN	3777	0600	3	CA
4U1UN	3793	1145	4	NH
9V1XQ *	3792	2214	29	MA
HV4NAC	3792	0207	2	MA
JF1IST	3799	1145	30	NJ
VK3DZM	3795	1150	1	NC
VK6LK *	3798	2105	2	MA

40 Meters

3B8CF	7005	0231	1	MA
3B8CF	7003	2100	26	NS
3DAØBK	7006	0044	2	MI
4S7RO *	7012	1310	29	IA
5B4/G4ZVJ	7000	2237	8	FL
5U7M	7000	2331	8	FL
7Q7XX	7007	0228	1	MA
7Q7XX	7004	2220	31	IA
8R1J	7005	1055	4	MI
9J2HN	7006	2250	4	IA
9K2ZZ *	7007	1345	5	IA
9M2DM	7009	1535	1	CA
9X5HG	7007	0130	7	FL
A22MN	7013	2243	5	FL
C9RJJ	7013	0350	27	UT
FK8FU	7007	1320	1	IL
HFØPOL	7001	2315	4	IA
HP2CWB	7001	1105	2	NC
HS1CDX	7005	1142	28	MA
HS1CXY	7005	1100	28	NH
JT1CS	7004	1209	5	VA
JW5NM	7005	1241	1	AL
LY1DF *	7002	1503	4	ID
P29DK	7004	1326	3	AL
PYØFF	7003	0105	30	IA
PZ1DV	7003	2328	3	FL
S21ZG *	7009	1315	29	IA
T32VU	7002	0515	30	MA
T55C	7003	0327	9	FL
TR8GR	7016	2221	3	FL
TR8NSY	7002	2215	5	VA
UD7DZ *	7005	1300	29	IA
UJ8JI	7010	1215	7	GA
UL7TX *	7005	1425	30	CA
V2/VE3BW	7011	0020	5	FL
VP8GAV	7005	0115	6	GA
VQ9AC	7005	2140	2	IL
VQ9KC *	7003	1514	29	ID
VS6BG	7002	1545	2	CA
VU2LO	7004	0140	4	CA
VU2LO *	7005	1331	1	IL
XQØYAF	7001	0325	5	GA
XU5DX	7005	1425	2	CA
Z21HQ	7003	0325	3	GA
ZA1J	7005	0330	31	CA

30 Meters

3B8CF	10107	0315	5	GA
3Y2GV	10114	0303	2	VA
5T5CJ	10107	0316	1	GA
7P8SR	10107	0241	6	FL
7Q7TA	10105	2151	3	PA
9K2MU	10108	1505	6	PA
A22BW	10108	0346	1	KS
C9RJJ	10106	0326	2	GA
HFØPOL	10100	2224	3	FL
HP2CWB	10108	0520	1	KS
PZ1DV	10106	0239	6	FL
T32VU	10106	0245	5	PA
UD6DKW	10104	0424	7	PA
V2/VE3BW	10104	2141	7	PA
VK6HG	10101	2313	7	PA
XF4JC	10101	0140	8	GA
XT2BW	10108	2224	3	FL
YN1CC	10105	2353	7	PA
ZA1J	10105	0316	29	GA

20 Meter CW

5NØSKO	14045	0225	30	CA
5NØZKJ	14010	2020	3	SC
6W6JX	14020	2219	3	MA
8Q7BX	14010	1335	3	IA
8R1J	14030	0147	2	UT
9K2ZZ *	14006	1440	28	CO
9M2AX	14025	0008	10	NY
BZ4RCW	14014	0107	7	NY
EA6ZY	14025	1600	5	CA
HKØER	14025	2256	1	GA
HSØZAA	14026	0145	1	UT
JT1BR	14010	0045	27	UT
JX7DFA	14003	1845	1	UT
T5/W4QM	14040	1904	31	FL
T55C	14007	2045	7	CA
T55C *	14010	1245	7	GA
UJ8JA	14006	1256	4	NY
VQ9AC	14028	1830	1	IA
VQ9XX	14022	1522	6	CA
VS6BG	14002	2322	4	VA
VU2RKR	14011	1720	28	MI
VU2YK	14009	1510	30	CA
XU5SE	14011	1240	6	NY
XU6TQ	14025	1585	30	CA
ZP6CW	14026	0000	9	FL

20 Meter SSB

5Z4FO	14168	1855	3	IA
7Q7ZZ *	14185	1624	3	CA
9K2TC	14194	1530	6	CA
9K2ZZ *	14223	1450	31	CO
A41KJ *	14200	1315	31	IA
JX3EX	14201	1540	1	CA
KC4AAA	14290	0400	2	CA
VQ9TW	14213	0221	2	CA
VR6YL	14278	0604	29	CA
VU2DIG	14215	1258	6	NJ
VU2XX	14194	1230	2	NJ
XT2BW	14211	2120	3	IA

17 Meter CW

3Y2GV	18076	0030	8	GA
5T5CJ	18080	1540	29	ID
5Z4FM	18083	1522	27	NS
7P8FE	18074	1821	27	WV
C31LL	18071	1531	31	NH
KH8AW	18075	1913	3	FL
OX3XR	18071	1618	9	NY
S92SS	18069	2239	9	NY
T32VU	18073	0127	28	MI
T32VU	18070	1940	1	KS
TF3EJ	18074	1617	30	MI
VU2NBT	18080	1331	3	VA

17 Meter SSB

5T5CJ	18120	1709	29	VA

15 Meter CW

7Q7RM	21020	1827	2	NY
BV7FC	21014	0030	1	CA
C9RJJ	21005	1900	1	MO
HJØVGJ	21027	2020	28	UT
T32VU	21027	0025	4	CA
T77C	21021	1557	2	MO
TR8YA	21030	1339	29	NJ
VP8GAV	21020	1448	3	IL
VU2BK	21040	1255	8	NY
XQØYAF	21010	0005	6	GA
XQØYAF	21010	1515	2	CA
YN/SMØOIG	21010	1630	6	NH
YN1CC	21023	2051	31	NH
ZD8LII	21020	2311	28	GA

15 Meter SSB

9J2BO	21355	1905	2	CA
HV3SJ	21280	1324	1	VA
TU2JL	21239	1435	29	IA
TZ6VV	21205	1605	3	IA
V51ED	21260	2000	6	NH
ZD7DP	21237	1340	29	IA
ZS9A	21355	1323	3	AL

12 Meter CW

5T5CJ	24894	1641	9	NY
HFØPOL	24891	1634	9	NY
T55C	24891	1426	2	AL

12 Meter SSB

3XØHLU	24950	2000	2	MA
C6AGN	24952	2103	2	MA
CX4CX	24940	2122	1	MA
EA8AMT	24940	1731	2	MA
TU2QW	24948	1610	20	NH
ZF8AA	24934	2031	1	MA
ZS6DND	24954	1939	1	MA

10 Meter CW

9J2BO	28024	1557	4	VA
J28FO	28051	1403	1	GA
PZ1DY	28029	1242	3	GA
T32VU	28013	2034	28	UT
V2/VE3BW	28015	1615	3	SC
XQØYAF	28010	1520	2	GA
Z21FN	28010	1317	31	GA

10 Meter SSB

5T5SN	28530	1510	3	MD
7X2WK	28480	1645	2	CA
9J2EG	28500	1659	2	CA
A22JP	28480	1700	1	CA
C9RDM	28480	1700	1	CA
C9RJJ	28480	1700	1	CA
D44BC	28418	1745	1	CA
EL2PP	38525	1725	3	IA
FH5CB	28555	1425	29	IA
PZ1DY	28473	1520	3	MD
TR8YA	28490	1356	3	GA
VP2MQ	28410	1308	31	GA
VP8VN	28492	1419	6	VA
YJ8RN	28536	2300	2	IL

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Current and Future DXpeditions

(Changes and hot info in **boldface**.)

DXCC Country	Prefix	Callsign	Dates	Issue
Angola	**D2/**	**N6QHO**	**Jan. 13-Feb. 16**	**I671**
Antarctica	DL1KVC/P		14246 17-1900Z	I664
Antigua	**V2/**	**VE3BW**	**Jan. 1-29**	**I664**
Aruba	**P4/**	**W1EKT**	**Jan. 11-18**	**I667**
		P4ØOZ	**Jan. 18-25**	**I671**
Auckland Is.	**ZL9/**	**HB9TL**	**Jan. 15-21**	**I670**
Bahamas	**C6**	**C6AGN**	**Dec. 15-Jan. 11**	**I667**
Baker, Howland	**KH1**	**/K9AJ**	**Jan. 26+**	**I671**
Bangladesh	S2	**S21ZG**	**20M CW now**	**I667**
Barbados	8P	8P9DX	Jan. 23-Feb. 6	I667
Belau	KC6	SS,RR,OK	Feb. 10-28	I670
British Virgins	**VP2V/W2GUP**		**to March 9**	**I670**
Cambodia	XU	XU7VK, others now active		I670
Cayman Islands	**ZF**	**ZF2NJ**	**Jan. 17-24**	**I671**
Crozet	FT	FT4WD	Now	I670
Central Kiribati	T31AF		Soon	I670
Gambia	**C56/G3RZ**		**to Feb. 1**	**I670**
Kingman Reef	KH5	NØAFW/	late Feb.	I666
Laccadive Islands		**VU7CF/API**	**Jan. 13-23**	**I671**
Maldives	**8Q**	**8Q7XX**	**Jan. 19-31**	**I670**
Marshall Islands	**V7**	**V73IO**	**Jan. 18-27**	**I671**
Midway Island	KH4	KD7P/	early 1993?	I669
Montserrat	**VP2MFA**		Feb. 5-17	I668
Nauru	C2	C21BR	to mid-Apr.	I669
Navassa	KP1	W5IJU	Mar. 26-Apr. 3	I668
Pitcairn Island	**VR6**	**JJ,BB**	**to March**	**I670**
Rwanda	9X	9X5AB	now active	I662
St. Maarten	**PJ7**	**PJ7JC**	**Jan. 9-16**	**I669**
San Andrés	HKØ/	AA5AU, KB5GL	Feb. 27+	I667
São Tomé	S9	S92SS	now active	I665
Seychelles	S7	S79MD	now active	I670
Singapore	9V	9V1YU	15M 15-1700Z	I661
Somalia	**T5/**	KH6HBZ	Now	I668/9
Wake Island	**KH9/**	**KK4DK**	**Now-Feb. 1**	**I671**

Operating Events and DX Gatherings

Dates	Event	Reference:
Jan. 16-17	Hungarian DX Test	CQ
Jan. 30-31	Belgium SSB Contest	I667
Jan. 29-31	CQWW 160-Meter CW test	CQ
Feb. 13-14	Spanish RTTY Contest	CQ
Feb. 20-21	ARRL CW DX Contest	QST
Mar. 6-7	ARRL SSB DX Test	QST

Contributors

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Resident Amateurs on Regularly

DXCC Country	Callsign	Freq.	UTC
Antigua	V2/VE3BW	10103	2200Z
Antigua	V2/VE3BW	3504	0000Z
Balearic Islands	EA6NB	7006±	0530Z
Balearic Islands	EA6NB	14005	1445Z
Easter Island	XQØYAF	28010	1500Z
Fernando de Noronha	PYØFF	7004	0100Z
Hong Kong	VS6BG	14004±	2330Z
Japan	JF1IST	3799	1145Z
Kuwait	9K2ZZ	7006	1345Z
Malawi	7Q7RM	21020	1830Z
Malawi	7Q7XX	7005	0230Z
Mauritius Island	3B8CF	7004±	0230, 21Z
Mauritius Island	3B8CF	10106	0300Z
Mongolia	JT1BR	14008±	0045Z
Mozambique	C9RJJ	10110±	0330Z

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DXCC Country	Callsign	Freq.	UTC
Mozambique	C9RJJ	20M CW	2200Z
Nicaragua	YN1CC	10106±	0000Z
Nigeria	5NØZKJ	14013±	2000Z
San Andrés	HJØVGJ	21026	2000Z
Singapore	9V1XQ	3795	2200Z
South Shetlands	HFØPOL	10101	2320-02Z
Tajikistan	UJ8JI	7004	12-1300Z
Zone 29	VK6HD	3502	2130Z

1993 Callbooks Available

The 1993 editions of the Flying Horse *Callbook*s are available for $26 each, or $49 for both, including UPS shipping to the contiguous 48 states. Plus, include your latitude and longitude and get a free custom computer beam-heading chart for DX and US QTHs and a free 1993 ham calendar, too. Check or money order to Mike Klein KC3NE, Box 306, Cheltenham PA 19012.